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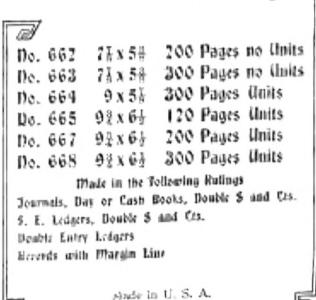
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WHEN ORDERING THIS BOOK SPECIFY STOCK NUMBER AND RULING DESIRED.

A ROORUM & PEASE PRODUCT

USEC typelitin Left Pearl Harbor a bit after noon, about 455 LC1 983. ili Went south for several hours, then started a great circle course for Eniwetoh atoll, Marshall Is. Much to my surprise I did not get stasich. set-Cruised along more or less uneventfully, except that on the 9th the boat twisted off a propeller - shaft. Limped along on one seven after that. The boat is one of the most uncomfoltable and unsatisfications craft I have ever seen for our purpose. Our bunks are in a square hold under the pilot house. Our officer we in another just forward. In about reflect square we have 11 desks, although theoretically we have ventilation, actually it is so hot in this hold that I find it practically impossible to work. Further, there is no space for a dotamist to work.

Om strage space is in another hold, goward of the office. This is cramped and everything so piled up that nothing is accessible. . The crew are a bunch of kids. The officers are all ensigns, all except the engineer about 21 years old. The engineer, may be 26. The skippens a sice and good looking, but who does not carry shuel, weight with the crew. The crew are the usual mothy bunch of kids to be found in a nary bout now. most of them are just in for a short time and not much interested in anything except getting out. all in all, the selection and outfitting of the boat shows complete incompetance so for anything concerning scientists. absolutely mo attention has been paid to the convenience and confort that is necessary to get the best work out of such men. 10 go further back - the relection of directing personnel shows

exactly the same sort of unawareness of reality all, of course, goes right back to the character of the organization - E.LB., 15.E.W., 0.2.W., J.E.a., U.S.C.C. the name changes have brought no change in the frundamental incompet ence of the outfit. The scientific personnel are mostly of for their jobs. Towner is an intensely enthus iastic youngster - entornolo. gist - a bit too aggressive but the kind that gets big collections. Oakley-entomologist is a quiet, courtern very hard working fellow some years tropical experience -Puerto Rier, guam, Honolula. He will accomplish a great deal, too, though with more emphasis on the economic -side, Rogers is a soil man. and quiet, competent, but without tropical experience. He will do a satisfactory job. Typer, ground water geologist. to have keen mind, but no experience with islands. He has a tendency to step on other people's tres a bit, but will do a good job on this survey.

Hosalra - good boy, with considerable initiative, should contribute both to botanical and agranomic phases. Smith- fisherie, man, is a tall, extremely likeable fellow, who knows his business very well. He seems a bit prese to overlook The taxmomisti interests, but uses their work comptently aki- Hawaiian fisherman; assistant to Smith. Certainly the personality of the party. Mac Millan - borticulturist and expedition director - of Roevel Expedition note - is no quiet and grungery that it is hand to size him up. Truebload & economist and chief of recentific party seems to have very little notion of how scientists function. He will gradually get it beaten into his head, but it may be a grainful process both rest of us. Provensher is a likeable guy who take care of equipment, arrangements of all sorts. He seems perpectly willing and may prove an asset to the party.

Weather has been about perfect, slight following sea, usually a cross tre The viean has been so blue that no me could describe it. Just to sit and water it makes up for much of the dist, smells, and discomfut of the boat. Read Hall's Lost Island and modhoff & Hall's The High Barbaree: Both are beautiful books. Renead Fords "Reath hails with magellan; and read most of the Leaning Wind: plus a flock of mystery stories. Worked at intervals on a card oatalog of which nesian plants.

竹样

fighted Enrivetoli at 8 a.m. got in before noon. The shipper, Trustland + max millan went ashore. The next of us got ashore in The middle of the afternoon the lagron is full of ships. Flating dry docky, tarkere, tugs. all marrier of things. Enimetal Island is completely clenuded - covered by granset buts & a youth freitenest dingles boy telesioney but was quite excited to meet Went to officer club and had some been. It taited very good. Billy. Half alpert received eams from Kwagulein. Waited around all morning and finally got off in'a I gurin ! which is still completely worded. Collected here, but suffered some from The heat; This is on the lee side of the atolf and simply littlegenth wellinge and funds that has ploated her. also everything is covered with oil.

got scaled by storay

coming bade -Had a good deriver asher. Moved our girnle oraline & the bog but. What a young rient. angle, who was greate excepted to meet someone mentioned in the Fearing Word. Talked to him Till mirdnight. Bishop o Trueblood left at 9 am for gram.

15 10 Went to Japlan 1. cm , Picket don't. This rolet has been considerably massed up, but is very interesting. forme boys stationed her priched me my in a truck, mauled me around when I wanted to go, fed me been, got me Pandanus fruits, etc. Had a mice severy.

to Went & arman ! in Picket Boat. this is where most of the natures have been placed. D. Halspeth, the military good. official, went with in. He helped us get information from the natives. They are a pleasant but very quiet Lot. They seem to have become

rather dependent on the M.g. They still build and sail cansos, but cultivate nothing, make no copina. m.g. has then hunting course and making stell leso, wearing a peri coconut leaf bashets and belts, etc. to sell at explitant frients the gras in the island and broits. The price as fantaitie. Ordinary large sprotted courses 1 45. small one 50 f. lees 1 to 5. What chief Brown Smith interpreter, who has been in U.S. who befred plan and led the assault on Enimetole. He is a pleasant old fellow. The the teeth of the oreder people are very lad. There people are all to be moved to turajalein before the atomic bond is exploded The soiling canoes here are marvelow - deep, nanow hulls 25-30 inches cleep, 10-12 wide outrigger and compensating blatform, later sail. They can really move. We went ashor and out in

17 Staged on Enimetale V. Drove around with on miller, the surgeon, who terms out to be a nepher of Dr. Lambert of Walnut Creek, Cal. The one who was in Figi ste. He says he will mite to lim and attroduce me. down weekage of a mere of U. T. Thursit plans that were of town to but when c. 1. 79 was taking off and a cridentally dropped be Combo Cectainly made a voice of them. certainly than thated us well.

long hip This islet also has been almost completely denuded. This are millions of dollars with of equipment abandoned here. Had good collecting, in spite of the modition of the regetation.
The picket book went back and picked up Trueblood and Kakepeth, took them to

Coman then came for which to when we get almost back to armon both motor went dead clayed first line. The crew fooled with it for a hours through the came out in a thought came out in a thrown they for help fruit as a withing to help fruit as a withing the help fruit as a withing for help fruit as a withing for help fruit as a withing for help fruit as a withing the forms back together, at 10 years back together, at

May 19 - Worked on planta

May 20. Started at about

8:36 for Trule. Busy all

clay going over the presses.

grood weather. My drying

facilities are sorely taxed.

What a birtholay! I even

fingot it was my birthday.

May 21 - Worked over presses.

Terrifically host down in

no. 2 hold. Intended to

write a report on Enimetoh

but didn't get to in.

DUN MOUNTAIN LINE.

NAMES OF TREES AND LARGER SHRUBS.

(By F. G. Gibbs.)

At the Chatle Hill reserve where an arranged to preserve the locally endemic Ranuals occur Notothlaspi rosulatum, M. Colens calcularifolia, Lepidium sisymbrioides, Ore (ver. rigida), Anisotome enysii, Carmichael (ver. rigida), Anisotome enysi

The Roculin eximin association grows a greywacke rock. Flants often found epip Gelmisia spectabilis, G. viscosa, Aciphylla flavescens.

On the shingle slips we may tind Orasp selerophylls, Ranunculus herestii, Anisotome Stellaria rosulatim, Motothlaspi rosulatum, H. sinclait, Lobelia roughii and Epilobi epacrides, H. lycopodioides and H. tetrasti

Dracophyllum app., Celmisia app. and near endemic Ranuncalus enysii.

From Christchurch to Springfield (42 miles) we rise approximately 36 ft to the mile. This area, now almost entirely devoted to mixed arable farming, was originally low tussock grassland, the species including those we will see at our first stop in the Kowai River bed.

This <u>low tussock grassland</u> has been greatly altered in composition by the action of fire, the grazing animal and the introduction of exotic plants. Species which we should find are:-Poa caespitosa, P. colensoi, Festuca NovaeZelandiae, Agropyrum scabrum, Dichelachne crinita, Danthonia semi annularis and D. pilosa among the grasses.

Geranium spp. Oxalis corniculata, Epilobium spp., Dichondra repens, Wahlengergia spp., Lagenophora pumila, Brachycome sinclairii, Helichrysum bellidioides and H. filicanle, Chrysobactron hookeri, Celmisia gracilenta, Raoulia spp. and Senecio bellidioides among the herbaceous plants.

Discaria toumatou, Cassinia fulvida, Leucopogon fraseri, Carmichaelia subulata, C. monroi and C. nana, Coriaria sarmentosa among the shrubs;

And of special interest: Aciphylla colensoi and A. squarrosa, and Hoheria Lyallii at its eastern limit.

On dry rock faces we find such xerophytes as Corokia cotoneaster, Helichrysum selago, Coprosma propinqua and Hymenanthera alpina.

Between the top of the pass and the shingle slips we find a very varied bag of Viola cunninghamii, Senecio lyallii, Danthonia flavescens, Coprosma spp., Hierochloe redolens, Hebe spp., Dracophyllum spp., Celmisia spp. and near the creek the local endemic Ranunculus enysii.

On the shingle slips we may find Craspedia alpina, Poa sclerophylla, Ranunculus haastii, Anisotome carnosula, Cotula atrata, Stellaria roughii, Notothlaspi rosulatum, Haastia recurva or H. sinclairii, Lobelia roughii and Epilobium pycnostachyum, Hebe epacridea, H. lycopodioides and H. tetrasticha may also be found.

The Raoulia eximia association grows at about 3500 - 5000 ft on greywacke rock. Plants often found epiphytic in the cushions are Celmisia spectabilis, C. viscosa, Aciphylla colensoi and Danthonia flavescens.

At the Castle Hill reserve where an area has been specially fenced to preserve the locally endemic Ranunculus paucifolius, there also occur Notothlaspi rosulatum, M. Colensoi (syn. decora), Pon acicularifolia, Lepidium sisymbrioides, Oreomyrrhis andicola (var. rigida), Anisotome enysii, Carmichaelia monroi, Crepis Novae-zealandiae, and Senecio haastii.

Coman Then came for which to Chornon both

From Chr approximately devoted to mi grassland, th in the Kowai

This low composition b introduction Poa caespitos scabrum, Dic D. pilosa amo

Geranium repens, Wahl. sinclairii. Chrysobactron Senecio belli

Discaria Carmichaelia among the shr

And of s' and Hoheria L

On dry r Helichrysum s

TU MOULOT Crepts omyrrhis andicoln oi (syn, decore), Pon neulius paucifolius, there er pue peen abeciutly

colensoi and Danthonia bytic in the cushions ore 1.I 0009 - 009£ 100qu 1

cyu wuh ujeo pe ionuq. mm blocostachyum, Hebe Honstin recurve or ocrmosula, Cotula atuada פקדט עדבדע שדףם!

Between ' varied bag of Triffically hot down in No. 2 hold. Intended to write a report on Enimeter but didn't get to it.

DUN MOUNTAIN LINE.

NAMES OF TREES AND LARGER SHRUBS.

(By F. G. Gibbs.)

THE BEECH FAMILY

The beech forest through which the line passes is composed for the most part of two species, Nothofagus fusca (the large toothed beech) and Nothelagus truncata (the clinker beech) together with hybrids between them. Both species have leaves about an inchtop of the leaf is rounded with a few short teeth. N. fusea has much more deeply cut teeth and the tip of the leaf is populed. Nothologus Menziesii (the silver beech) is first met with near the Third House Clearing and is thereafter fairly plentiful. The leaves are obling, ball an inch or less long, thick and The whitish bark of the trunk is marked with horizontal bands. Nothologus Solanderi (the entire leaved beech) grows chiefly in the valley bottoms, but Several specimens occur near Second House Gully. It has thin oblong House Gully. It has thin oblong leaves about half an inch long or less and no teeth. Nothologus cliffortioides (the mountain beech) has leaves somewhat like those of the previous species, but thicker and more triangular and pointed. This is the only beech to be found close to the line just before it-merges from the bush on to the Minecal Belt. Nothofagus apiculata, of which there is a good specimen just above the line at the beginning of the Third House clearing is almost certainly rot a true species, but merely a hybrid between Notholagus Solanderi (which it closely resembles) and one of the toothed species, for it has the Soianderi leaf with a few minute teeth. It should be specially noted that the kamahi, which is perhaps the commones tree of all in the immediate neighbourhood of the line, is not a beech although it is generally called "red birch" by bushmen. It has toothed leaves usually much larger than those of any beech, and racemes of flowers resembling those of the koronuko. It will be referred to later as Weinmannia racemosa. The heath, Gaultheria autipoda, has leaves like N. Menziesii and is often mistaken for a beech, but the branchlets are covered with soft brown scales.

THE CONIFER FAMILY

No examples of miro, matai, kahikatea or true totara are to be found. although specimens of the two latter occur near the road in the Brook Street Valley. In several of the gullies along the line, the well known drooping long, but the clinker's leaves have the line, the well known drooping much shorter, blunter teeth and the foliage of the rimu. Dacrydium cupressimm, can be observed. Near Coad's Creek at the end of the bush the handsome dark foliage of the mountain nine Dacrydmm Bidwillii, will be seen.

he branches generally bearing two entirely distinct kinds of leaves, one polished, with numerous short teeth, set scale like, closely appressed to the branchlets and the others yew like. In places on the Mineral Belt, especially on the Dun Mountain, occurs the smallest pine in the world. Dacrydium laxifolium, which with its minute leaves sometimes straggles along the ground for a foot or more, but may come to maturity and bear fruit when only an inch or two high. The true totars with its good timber and coarse stringy bank does not seem to grow anywhere long the line, but its worthless relative, Podocarpus Hallii, with thin papery bark often resembling that of the fuchsia and thick, sharp pointed leaves often over an inch long, is fairly plentiful. The alpine totara, Podo. carpus nivalis, with much shorter blunter leaves and generally a mere bush a raggling along the ground is found in a few places on the Mineral Belt. Near Coad's Creek and on the higher slopes of the Wooded Peak, is found the South Island cedar. Libocedrus Bidwillii, generally, like the mountain pine bearing two kinds of foliage, but easily recognised by a straight tapering stem bearing brown bark which comes oft in long strips. Phyllocladus alpinus the mountain teates) grows plentiful y near and also on the Mineral Belt. What appear of he its thick woody leaves are really flattened branchlets.

THE DAISY FAMILY

Three of the daisy trees are at the heads of daisy like flowers. Brachy. glottis repanda (rangiora) has large roundish leaves, sometimes five inches across, and having the leaf stalks and leaf completely white. Olearia Cunninghamii has toothed leaves four or five inches long and about two inches wide, with an undersurface of greyish white or buff colour. Olearia arborescens (formerly nitida) is easily recognised by leaves having a characteristic satiny under surface. Olearia virgata on the Mineral Belt has narrow leaves less than inch long and whitish underneath. The small daisy flowers grow close to the branches Cassinia fulvida, a form of tawhini, grows just beyond the Third House and on the Mineral Belt.

THE IVY FAMILY

None of these climb like the English ivy but are trees or bushes. Nothopanax arboreum, the five finger, grows all along the line and in many gardens in town. Its leaflets have s'alks about an inch long. Nothopanax Colensoi is found from the Third House to the Mineral Belt. It resembles the former, but its rather thicker leaflets have no stalks, though a strong stalk supports the spreading fan of leaflets. Nothopanax simplex in its adult form resembles a N. arboreum with only one finger to each leaf instead of five or seven. Its juvenile leaves are utterly different and are often mistaken for ferns. It is found beyond the Third House Nothopanax anomalum is quite unlike all the former species, looking like a wire netting bush with small single leaves about a quarter of an inch long. It is not plentiful but one specimen grows on the track at the Third House clearing and many more on the dry spurs of the Fringe Hill. Schefflera digitata resembles N. arboreum but its long narrow leaflets are much thinner and more papery and its long drooping racemes of fruit are quite unlike the rigid crect bunches of herries characteristic of the "five finger." It grows chiefly in damp gullies.

THE KARAMU FAMILY

At least a dozen species of Coprosma present time covered with magnificent are common along the line, and the low andergrowth growing on the line itself is chiefly composed of some of the species. All are distinguished by a small triangular growth (interpetiolar the whole of the undersurface of the stipule) on the branchlet between the bases of the stalks of the opposite ienves. Coprosma grandifolia (Kanono) is the plant from which the Maories obtained their best dyes and is very plentiful. Its large elliptical leaves, sometimes eight inches long, have a dark green raised midrib on the upper side. Coprosma lucida has large shiny leaves with a raised yellow midrib. Coprosma robusta has duller, smaller ieaves with a sunken yellow midrib. Coprosma linariifolia with very narrow leaves about two inches long and Coprosma Cuuninghamii, probably a hybrid with leaves varying much in size and shape are found chiefly in Fourth House gully. Coprosma foetidissima (stinkwood) has long stalked leaves which give out a most offensive odour when bruised. The species rhamnoides, parviflora, propinqua, Colensoi, micro carpa and cancata all have small leaves and generally grow to only moderate sized bushes, so will not be described

THE HEATH FAMILY

Gauitheria antipoda has leaves re-sembling these of Nothofagus Men ziesii and is of en called a "birch," but it has hairy branchiets and never grows to more than a tall shrub "Cyathodes acerosa with short prickly leaves stand ing out straight all round the branchlets and brown button-like fruit is most plentiful outside the bush. Cyathodes empetrifolia with still shorter leaves is found sparingly on the mineral belt. Loucopegon fasciculantum is often mistaken for a manuka, but its leaves are longer and stand out straight from the Lranchlets. Dracophyllum lougifolium. the grass tree, with foliage like tufts of grass at the ends of the branches, is found chiefly near the end of the bush. Some smaller but similar species, Urvilleanum, rosmarininifolum and probably uniflorum, are plentiful on the Mineral Belt.

THE MYRTLE FAMILY

Leptospermum scoparium, the red manuka, has prickly leaves, large flowers and large capsules which can be found on the branches all the year round. It is seldom more than a tall shrub. Leptospermum ericoides, the white manuka, which more often grows into a tree, has softer, narrower, less prickly leaves, while the flowers and capsules are much smaller and the latter soon fail from the branches. Metrosideros lucida, the mountain rata, is well known to everybody. The climber, Metrosideros hypericifolia, with its double rows of small leaves and pinkish white flowers, occurs sparingly.

THE MATIPOU FAMILY

Suttonia australis (formerly Myrsine Urvillei), the mapou or matipou, with its reddish yellow branches and crinkly leaves, is often used in town as a hedge plant, though the Maori name is often misapplied to another favourite hedge plant with black branches, namely Pittosporum tennifolium. Suttonia divaricata occurs near the mineral belt and is easily recognised by its small heart shaped leaves and the peculiar drooping habit of its stiff wiry branches.

THE PITTOSPORUM FAMILY

Pittisporum tenuifolium, or kohuhu, with its black branches and small ligh. green crinkly leaves, is plentiful in our town gardens, especially as a hedge plant. Pittosporum eugenioides, the tarata or lemon tree, is also common about town. The long narrow pointed leaves are of a bright yellowish gree: colour and give out a pleasant lemon scent when bruised. Pittosporum di varicatum is a densely twiggy shrub growing in the bush near the mineral belt. Its minute leaves are most varied in shape, but identification can usually be obtained from the small purple flow ers and the characteristic pittosporum capsules enclosing black sticky seeds

THE SAXIFRAGE FAMILY

Weinmannia racemosa, the kamahi, often erroneously called a red birch or bastard birch, is probably the commonest tree in the secondary growth along the line and Dr. Cockayne says it is the commonest tree in New Zealand. The reddish much toothed leaves vary considerably in size but are generally about an inch and a half long. The racemes of beautiful pinkish flowers are just coming out. In the young stage the leaves are often divided in to three leaflets. Carpodetus serratus, the puta puta wheta, sometimes called by Nelson bushmen the Christmas tree, has beautiful leaves of deeply mottled green and bears at the end of the year a profusion of white starlike flowers.

THE KOROMIKO FAMILY

The well known koromiko, Veronica (or Hebe) salicifolia, with its beautiful racemes of bluish white flowers, and its leaves resembling in shape those of a willow, is plentiful in places. A form with much narrower leaves growing by the zig zag track is called Veronica angustifolia. In Fourth House gully two species with smaller leaves are met with. V. Menzjesii with erect branches. and V. vernicosa with drooping branches, but there is also an interesting series of intermediate hybrids. Or the mineral belt V. buxifolia, the "na live box." is plentiful

but didn't get to it

MISCELLANEOUS

Aristotelia racemosa, the make make. wineherry or fire tire, springs up in profusion where hie has destroyed the bush and is much in evidence among the dead trees at the beginning of the Third House clearing. It has large thin heer-sliped leaves with numerous teeth round the edge, and bunches of crooping pink flowers. Aristotelia fruticosa with its reddish bark is one of the densely twiggy plants to be found on the mineral belt. Elacocarpus Hookerianus, the pokaka, with its juvenile twisty wisty habit and foliage so acterly unlike that of the adult, is not plentiful , but when in flower is one of our most beautiful nutive trees Grischma littoralis, the kapuka or proadleaf, has thick leathery leaves which are greedily eaten by the deer This tree is often mistaken for the karaka (Corvoccarpus laevigata). but the latter shows the veins plainly on the moderaide of its leaves, while the lumadleaf does not. Melicytus rami= florm, the maline or whitey wood, with teethal oblong leaves several inches long, light coloured bark and small flowers growing out of the main hranches, is plentiful at the beginning of the line. The place of the ordinary palm lily or cabbage tree is taken by its close relative Cordyline Ranskii, a smaller more stender plant, whose iences narrow into a long thin stalk. Drimys colorata has green leaves often strongly blotched with red which are very not to taste. On the zig zag track are found a few specimens Dodonaea viscosa with its long blunt

elliptical light green leaves, and hoplike fruit. Several specimens grow in upper Collingwood Street and other parts of the town. The beautiful but poisonous tutu, Coriaria ruscifolia, well known to all, as is also Fuchsia excorticata with its edible berries. Discaria Toumaton, the wild Irishman or matagourie, occurs on the zig zag track. Phormium tenax, the so-called flax. with reddish flowers, erect pods and red margined leaves, occurs before the bush is entered. The less valuable thornium Colensoi green flowers, drooping pass as 1 ston less right leaves, grows on the gohelt. The beautiful mixtletoe, white said by the officers of the Forestry De partment to do much damage to the beech timber is the species Elytranthe letrapetala.

CLIMBERS OR LIANES

The supplejack Rhipogonum scandens is plentiful on the hill side below the line in many places. The lawyer, Rubus austratis, with its prickle cover od leaves, is only too much in evidence. Muchlenbeckla austratis of the dock amily, with many of its leaves shaped somewhat like a fiddle is common. Elemats hexasepala with its beautiful sprays of white flowers is well known. Clematis Cotensoi, clumbs over the manuka hushes before the bush is entered. The rata, Metrosideros hypericifolla, has been described as a member of the myrtle family.

Evening Mail Print

our avant get is a.

contract with that of the maighbourion isom-curios, miled is clothed with invuriant forests of ocuthern-beach (Nothernman mo.). On the

- 1. SHALLSE VALUE Found near the warein of the Belt and comprising stunted assets common to the adjacent farest, such se Origelinia litteralie and Mothofogue fuees. Then there are other shrubs, not so recuded; those are ;- Cassinia Vauvilliersii war. Coordens propingua, Pracophyllum langifelium ver. and Lectospersum econorius vor. In this association there are a number of could herbs, s.s. Claytonia sustralagios, Calabanthus multenate and mulimbine secureulare yes.
- a. OF SUBUBLAND. Here beour the book characteristic please. Canainia Vauvillierali war., Iracophylius rosseriaifolium, Krogerrue Didwillii, Synemanthere dentete vor. Placing guteri and Suchlenbeckin axilleria. The harbs are i-Sycsotla Numrei, Sotothiaspi sustrals, Sentians coryabifers, Anisotone arounties and A. filifulium.
- TUBBEEL SHARKLAND 3. The deciment plant is Danthonia Baculii Wer.: sub-dominant are formium Cooklasur and Astelia months wer.

The above information is admitted from a maner by M. W. Hette, in the Transactions of the W.Z. Institute, pc. 270-245, 1913. The title of this paper is: "Notes on the Autocology of certain plants of the Peridotite Helt, Selson: Part I - Structure of some of the plants (No.1)."

may 22

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Lake

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HEMLOCK RINGE ON CANDLEWOOD LAKE

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May 17 - worked on plants

May 20. Started at about 8:38 for Truck. Busy all day going over the presses. Good weather. My strying facilities are sorely taxed! What a birtholay! I even forgot it was my birtholay! I even forgot it was my birtholay.

May 21 - Worked over france. Tenlifically hot down in no. 2 hold. Intended to write a report on Enimeter but didn't get to it.

1948 Virginia anne & 13 traffer 6 French Sille delpt. 30 - 2 mm sould far facts give woods with the would association of Chimaphilo, goodyers, mitebella, elle. mitchella regions L. prostate, dark dulp about on ground green, truit scarlet. mades frime. one fruit with one calys. love to a sock dirth enlarged and alway. This fruit also has a ring around it, like a secondary carry my about half away down. not quite regarin or Oct. 3 - across from River Haven South River anne amendel Co. Wil wooded bluff of collington loan soil, mixed fries and hardwood rm. Thee 10 m. tall, needler 47 Pinns columnta mostly in pain, very small colony, unusual has recasionally in 3's. oct. 9 - 1 mi. s. of menifield. Tainfray Co. in dense young pine stand. 49 Corallorhiza sorre tretay white, occasional in the clay spotted with françole covered with pring needless rangere white .

Oct 17. Dyke Blomas Rever belowalisading estraine swamp - mud- glat covered with a snall Francis trees with a second story of warrow, should the erbe shows story of faurery, etc

0150 alnus

occurmas 51 Cornus vectarized.

> Oct 117 - West grove Poternac River below accounting extends on perhaps were from stine then a ensures expanse - [tidal flat commuted by mania Types etc. at outer edge of this first pedage from edge of swamp. frings of tree, suggesting or potente vigin for the from outer edgle at a yeloc

Outer edge, ment & deep water in the river bigher a nel firmer than set of flat Rengo counted on an and Tree about 75° The outer edge being cut away by us should a m. call

should in tell, stems crownish.

In the water of the marsh wer seen is runned of Earle analymny builler. Thankally feeding with regetation

1948 Maryland - Va. 16 Oct. 24 -Broad Geels, fourth River bushy worded bluff 15 m. above tide water 152 quere 54 green 51 My 56 Fage 57 quere 58 Vilon 39 Caryo 60 guereus vermen dans treasional -- Ost. 30. Barcroft Reservoir Ald Princes Co. Va. in edge of forest v v Oct. 31 - South arlington arlington co abandhed clay pris 12 quereus steel slope of bushy bank

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should it m talf.

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shub 1,5 m Talf

1948 Maryland - Va Oct. 24-Broad Creek, fourth River bushy worded bluff, 5 m. above tide water 1152 Guereus montana common 53 quereus stellata Wang. I occasional on stopes 54 greneus alla t. common 45 Myrica come penylvenicalis. 56 Fagus grandifolis of puler finelled 57 quereus marilandica Muerich. Common 58 Viburum acoifolium t. occasional 39 Carya stellata oceasional 60 generous velutions Jam. treasional - Ost, 30 . Barcroft Reservoir Ab Priences. Va. in edge of forest arlington co. abandoned clay grits 12 querens stul slope of brushy bank

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1943 Virginia fairfax 6. 30176 Francis americana small tree 4 m. tale, common breally in low place - young twigs olive - gray. 77 Diospyva virginiana I. common 18 Catalfia young tree 4 34 talt. 79 Viburum prunifolium 7 tree 5 in tale common 30 Vibranian showb 2.5 m. tall Holmes Run Fainfrax Co.

81 Pruns should is mitale 32 Rhododendron mudiflowed Illen Rocal, on rocky know 3) amelanchie should 3 m. Tall, but, served. local in deciduous words 84 Rhododendien level, margin of reserving 85 Corylus showly mitall. desasional in This words santion, wer. race in woods 11 Magus enlarged bases fleely about base of large tree on horsting handle of Tagues 78 Lambureus canadensis shut m. talf wet low place

24 1948 Virginia, maryland 30/89 Rinders benjoin places 90 Carex common in word of many Dec. 1 - Potomore River it glen Eelis, monlymany G. ml. 30 along canal tow- frath. 91 acer Inegundo L common 92 Mones alla L. common Dec. 4 - Columbia Vily 12 mi. w. of Carroft vam. s. w. of Bareroft Keservoir, Fairfacto. solid stand of Pinus vinginiana with thick layer of fresh and reaver. 93 monotropa hypropitys ! dried. evenil. 94 Chimaphila macufata. very ermman

Fairfux G. - Montgomen 25 should a mother than troken

shrule om talf (others are trees) twings green.

spreading blushy
tree 5 m. talf larger
branches yellowish olive;
leaves on growing, but
not dried up yet.

leaves darer dult green.

Jan. 20 - Special of RC. feight to New Zealand light Honolulu at 2:30 p.m. and flew to Hawaii, passing Lanai + Kahoolawe On handi erosion is still serious on the western end of the plateau and on the worth-east end of the island most of the rest was covered by clouds. On Kalvoolawe almost the whole platean was enoded clean of vegetation, bright red in coln. On Lanai the ravine mouths on the west end were marked by great flags of ref silt in the water, though ming streams were my noticed "photos - hodach 2012) On maunaken a great deaf of snow was seen near the Ef. On mound Lora the snow way thin but extended four down the sloper. Leveral flights were made over and by the deruption now in progress in Makameowed Baldera! a large spatter cons was evident which man have been the one built in 1933. a fountain of larg, perhaps 100 - 200 ft. high was playing. supplying enormous quantities This had filled makawerves

fanai Kahoolawe - Hawaii 29 to the lowest point in the in for all more meltedoff the crater from a lava careade was spilling over into foutly Crater. which it had filled and a rapid flow had extended, with three frings, a considerable distance older the 2. w. (2) style. This flow showed a red streak in the contex, which seemed to be still incandened Just west of the fountain on the outer slope, was a large bed of gray. Com ash, whith no snow. Its rigin and the earn for lash of anowwere not evident. alarge colum of bluish "smolie" rose to a great height over the emption. around the caldera at a short distance were secondary concentris faults, connected with the caldera formation. The edges of the caldera were abright cliffs, obviously the result of down-faulting (1strotos . broduchorne Roll # 1)

Canton D. (Phoenix group 30 Jan. 70-2 - stopped get canton for an both and a half in the middle of the nights Any all middle of the might to the form of the same of around the air base is extremely disturbed coral mibble with patches of andrus eclinatus and Clearing indica. With this are some Portulaca (luter (+ oleraces?)). Borerhavin differen, Lida fallax. and one patch of extremely whitney; (veloff). The Granton lagron beach is in places extremely steep, other places very gently stoping. In the Called places the sand is of a Sape but with , tida falla - Walp. abridant forming tows serve tenching 0) herevium potularastrum L. va Ó prostate, lan morn ton out N 09 Chesanian Lesuvium portutaiestum abundant on valine flats near inner beach Therming potulacastrum a pium 1006 Cragnoster whitneye lost. abundant breatly man inner beach

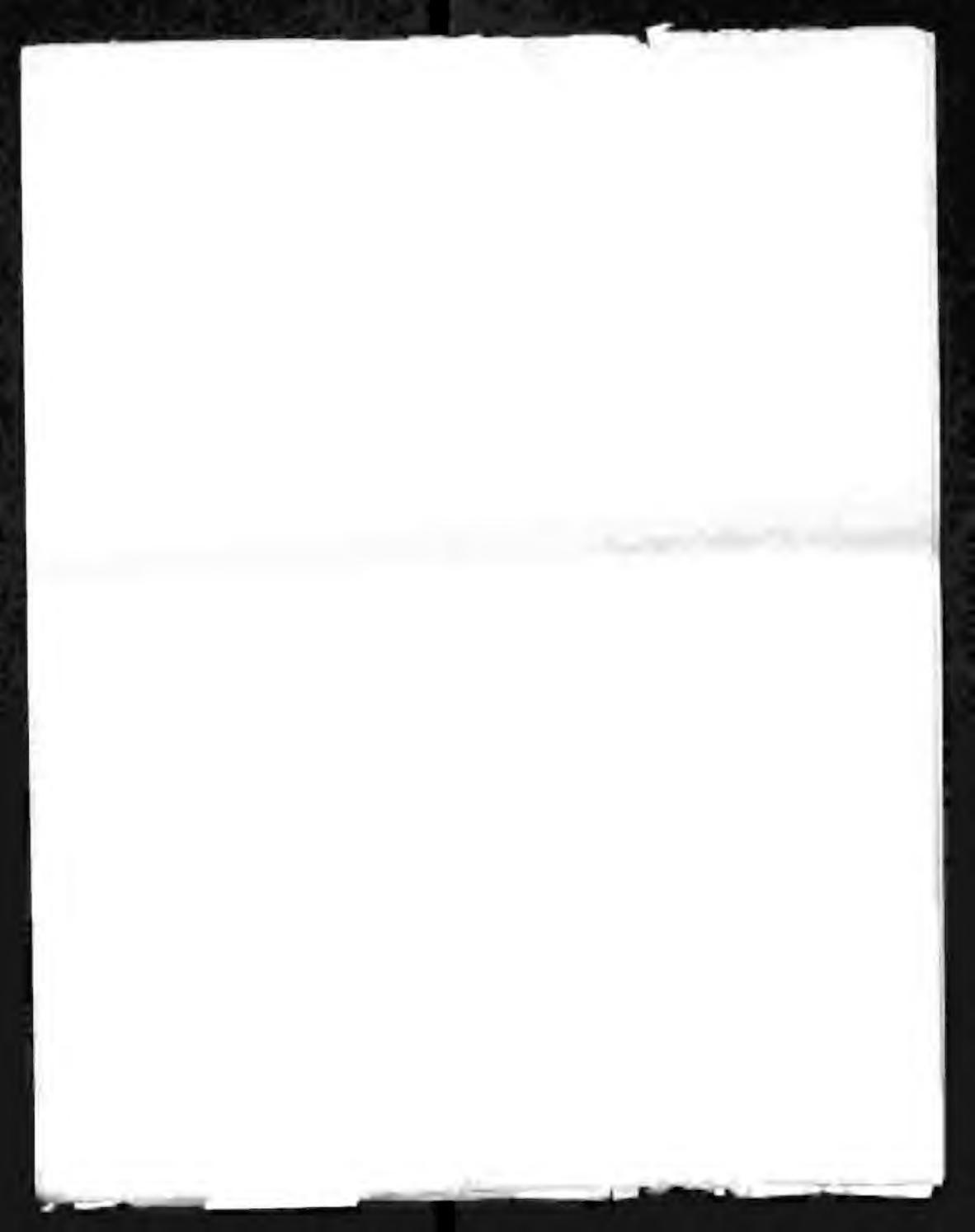
Pormation 9 (Plyanta group) 1 - 9 9 31 Theorem and an act 107 15) Levenium portulaceroum 1806 Cragnostis whitneys Feb. portulacastin agree

State Craggerstin whitehar the fish

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PLANTS OF CANTON ISLAND
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This become a trong fringing reefin the western the of of Viti Levu is often, new willy or mountains protectly wind by mineanthing cattle frathe about on stopes. The and was doubtless much stries, and ligs been burned or lot. In the frest adjace of to this region alberite motorcany is something that looks very loles it is common. the river in the west part are very silty, and - some striver enough heads of navine, is evident Inthe southwestern part of this of her part are exattered camearing to.

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4.9 1919 Men gealand 38 They & mu. Con Co. Reptorframemende, 202012 flower meter petal. to trate fraguest: rune : secret quall - mind as vool . of degree delan 10 106 19 Ja Tadad barbara common in wastrofun shots print cult who flater So Cantella unifoling common linging in edger of word but 31 of good diesen climbing on true forstook in often days of word. flower findich 32 Fobelia annelis rand on reach male joe were bluid, violet. 34 Washlandergin m s accesional along and at edged word strate 2 m. talo 34 Copiesma robusta diane feels beneath, comment in more fruits are my trees. Leaver purpled, 33 Clatostoma - 71 1 rare in deep about 36 thetregters a small alm prendent 36 deflerium laxum on trumbs of tree for the somattee, 6 m. talk 37 Lebeflera 11 - --End green. to in word analy tree, fruits 31 Coproma 2 - E. geolog, sange common in world

330227 Melicy tus manophyllu aleman. small tree in large stime, fruits white - purfatiet, mone ride. 45 Blechnum filiform tt. stends and feetils funds after matchy desirement or stem 41 Uncincia 1- 1 5 Col common in amount - from y present enter leaves their 110 Me leng depress deeper green (free, monet, in whomby pende I were - This thate, duckly seen 4. Mertera dietrond mefolia stem slightly trousiely in strade undertices 44 Polypodium tamestation Deprephytic on tree trunk 45 Raninelili, birtus gracy and id south end of beening eving 46 Corining would fresh arding stock Im. call flower brough- green commen in breaky work small tree 5 mitall. 47 anestotelia sonata who fruit black, occasional in trucky woods francis. 49 Podozarpur darrydioide a malter 6 m. talf. the commen fuil inmalue; foliage somewhat juvenily. juvenile from, leave, 49 Postoraline dayslinds deatichous commence in deep shade juvenile form plant 50 rendopanas cracifolium in in tale 51 Roudopana Enary very small tree, 3 mitall, flowers

A. M. J. 431747 1-1.7. tree 10 m. colf. 3025 agathir metalis and unmatery. common (formarly) agricant in frait. tre nota nx 53 asplaniam larce my more affect and existing the pendent 54 Lyzoto dien billa didi streple ytis - some CC The & The Tall. 55 Melicytus the na wife - 17 - refer fruit trucpe. orian mal in wood strolly obered, fruit st geniostona liquida folia A. Carry. - Lower try occasional in under a to ome get eco, storile. 57 Phyllocladur glander show by is m. tall former 18 Melie y tur miera alla granich white Thick che introp should, 59 Thetalence Metrosider 1 Work _stantone retritor eliming on the truck, show in tall; 60 Verrier salingolin Fretof. flowers white slightly rare in state purplish, fraguant. ve a tele a villa seer dy short (much magnet to) gents, and creo beiffy -with burney. eachitor. 61 Cyperia 1 10 -114 with the White som mon in thefite densely caespitors 62 fei fin, wordones common in defineren in olumin prostrate 63 Convolvalus soldanella common ordinational today

Conspicuous specie inthis dollen-dynan forest are Rhopalos tyli there species of melidytes. Dacrydium Expressorder, Vitex Coriaria macifolia, Freelin exentions, neveral fitto forum species, Coprosina or ofusta, C. Psendofiana crassifolium, Pothotanax Oleania, Leptorpernem ericoides, etc. The secub is in place a tall sember low frest of riplospermen, elsewher alower sent of a mixture of there a ofracus, Nationaciona is a not Pteridium agruelinum sep. excelentum, with vaines other subsidiary species. 7 be bluffer south of Pilia have a low south of topto the men coframeron. galania conthrough, Clearing, Vermina macircarpa, Phormium colonios, galvingahniasformis Cladium compression, etc. nary truck mostly methoredore

M.J. the beach on the of Pilia is notatall stuly. is of a feculia, blue sand, largely magnetite. hasts - 4 lines of bruge trabels. Just backly the tracking a rand termet up to 40 yards wide of low dunes, covered by yourd vegetation. The onte york after yards a little carex primila. Then is a west bely now of Lupiness arboneus, formerly of surpris fronderens, Scingues nodorus, getragonia coparsa, etc. Carolinis scattered here and there. Back of the in disturbed grand with weeks. with depressions behings them. On the bluffs are Sencoprogen, Ctindium, etc. Inthosephersions are Typha-Ihrmium marken

H. H. Allan of The Director of the Cotany Division D.S. J. R. , & the Terrace. Wellington, n.3.

1999 M.J. 49 48 Feb & The comments weitetern Barge freat on slope much to me to only dry except in ander first with many springers aigs fruit yellow 30271 Ville exclosing common in account go a will is mi- fee Elevered. 72 Transfeteris tannamer epiphytical base of the in hickor constroll. the tall enert. 73 Metrosiders florida sedge of words Herry Ceaverfrate 78 Repetitioning _ be nearly. epiphytic in franct stoned; fruit green 75 acrecation wood in alote in there extracts 76 Black ween from in deep words on whose shoul 3 m. tall, 650 5 77 Myseux slightly honged, strongly on open lower shote - two ited undulate. ren steen 18 Drudya prolin on but bounds above read

1999 The Line Comme Heb. W. Rangi Cote Internit, Burn Celling Hardon extinct recount of the per- a sing last a optimi many remediate and an in the second toon that it of the re-allatte for en-ex-- market in Cagn on little willy general negot theorege williams avere & the for home will bear fordered. The present vegetation . . of a directed it a cate and is er in real parties of attacking Execute who tree. 177 a en en en loty seniform the made in the initiation the trace on the year to record the bound of the con property and settlemains Mate The comment to act Metrosideos agaitata estrich is everywhere toyt diging we constituelly tetly the - ob usta ingrains is als er with living, thatlefrance Prends france, I whereas ets. Rielians and me pertala. 3 few fern and that any on the words, wastly inthe representation the take which are not closely straight.

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COMPERALES of NEW-CALEDONIA

Agathic Ovata

- Lanceolata
- Hypoleuca
- Grandifolia (Moore!)

Dacrydium Araucarioldes

- Balansas
- Guillaumini
- Taxolde
- (Lycopodioide)

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Podocarpus Longifoliatus

- Comptanl
- Sylvestris
- Ferruginoides
- Novae Caladoniae
- Minor
- Gnidioldes
- Vieillardii
- Ustus

+++

Argucaria Balansas

- Bernieri
- Cookii
- Rulei (Pendula)
- Mulei
- Montana
- Muelleri
- (Humboldtensis)
- Bidwilli (introduced)
- Excelse -id-

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Callitropsia Araucarioides

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Libocedrus Austrocaledonieus

- Chevalieri

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Callitris Neocaledonicus

- Sulcata

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Acmopyle Pancheri

- Alba

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PRESCH COMMANDA DATESTICAL

The PRINCE OCEANIA INSTITUTE is entrusted with Scientific Research in the abuth Ferific, research made in a general frame of eclentific research negatived by the OFFICE OF COLONIAL SCIENTIFIC RESEARCH.

The DPFICE OF COLORIAL SCIENTIFIC RESEARCH is the Scientific Department of the Ministry of Colonies; its sim is to satablish in the whole of oversea Territories a net of a commodations forming a sound material basis for Colonial Scientific Research.

Thus, there is actually:

- In Mestern French Africa, an Institute of Black Africa in Daker, with someone in Equipm. Quines, levery Coast, mauritania and Dahoseyland.
- In French Equatorial Africa, un lestitute of Control African Studios in Brassquille with annexes in Librarille, in the disbrief of Bangui and the Tehad area.
- In Medaguecar, on Institute in Tanamarive, with answes in fuleer, anteirabe and St. Paul's Island.
- Institutes in Camproun and Togolaud,

Last, for the Pacific, the FRENCH COMANIA INSTITUTE, polyvalent scientific establishment, which is to organize and coordinate scientific research in the Pacific area, and more generally:

- to incite, promote and earry out all acceptific work interesting the Tarritories of Franch Communis.
- to assume the relations and colleboration between the French

nearby countries.

Created by a Decree dated August 2nd 1946, the FRENCH OCEANIA INS-TITUTE really started work at the beginning of 1948. It has sattled in buildings transfered by the U.S.A. in virtue of the BLUM SYREAT Agreement.

The numerous scientific activities which ought to be his, can only be undertaken by degrees, according to a priority list, closely connected with recommendations of the South Pacific Commission.

For the present, the following branches are represented:

Ecology,

Sielogical Desanders phy.

Phytopathology.

Shemistry.

Entopology,

Coophysios.

other branches are still to make their appearance, in particulars Botany.

Blockemistry,

Wedical Entomology.

studies are for the present directed towards applied Tessearch, so as to help development and growth of production, primary conditions for social evolution. In this view, a Schsultative Research Council will be soon constituted, one of whose tasks will be to appoint sine of work for the Institute.

Tim actually working laboratories in not show any definitive appearance; they have just been freshly erected. The actual buildings are only temporary, and plans are drawn for the construction of lambar buildings.

poreign apecialists pleasing research in the fourth resists will find at the FRENCH OCHARIA SECTIVATE, laboratories and endomodations allowing an immediate start for their work.

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march 26 - Carcroft Reservoir Level spring flower are coming out - Hedyotis caerilea, Viola Bitaibeliana, Efrigala refrens, Lithosperman vergenianur eter rubium. l'otentilla simplex? l'anadoni Water is trighter than it has been this winter.

na small ravine running and the reservoir is a silty pool about , m. by \$5 m. which has some water plant, and a large accumulation of dead leaves. Springyra is abundant. Dead leaves and plant parts were collected from the pool in a manner that would correspond to collecting in a small lens of somewhat consolidated midstone. These leaves etc. are roughly grouped under # 30889 with letter designations which may be subdivided later, and roughly determined.

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30889 a acer rulrum

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Fairfax Co. 1949 Virginia 185 fuercus marilandica occasional ao lanieum a quereus marilandica ser overy nave sparganing, plant * Juercus fralcata cen man common leaves og Sparganiem u querous ruba Som man occasional plant will. 4. Harganium v fuerces rul 9? fruit , wow find cetasional leaf as fanieum w quereus vielution? plant & quercus ruba with leaves cecasional plant well. an lanceum y quereus velutions? leaves verazional angl. 3 yourcus corcernes: plant aw Juneur effusion at querous crecines? recasional Mynn at querencorences? stem with 9 y Scirpers. ad green evening. plants a, Lugar common ? ことうファーランチャル plant lung plant af Yourens ? 1. 1 terry plant ag frierons b.d. twig Gueraus" i east is an possibly grance) wing as Guerres a Carya. terring tranet al Lindandron Tulifife a cornel erino acades am fundention tulififera

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Finger to another sell to 193 1949 Virginia - The presy May 13, 1947 - Sleepy ballow itt flower white 31177 engo in tin beed and ends, edged wite on le (q. montana), thy san The state of the s worded the form and y we to retard light the fit will be to many Com should 9- yet in tall 98. Lynton on a construction of anolla white. 10 5 cm 7 28 10 11 1 8 66h Low J-4 den tall, somewhat 77 Variation to entire the glancous fruit immative, 2 /12 - - - of 1 to for of 1 to fift 139 M. Lugada conferration or. 11. ghat the top the top there, tufut. should 3-3 day, tall. leaves with stightly vily appearance, fruit immite. I at bottom of to totte shirt in tall flowers DI - Vilen - remarked - foliar L. white. dage struct 2 mitalle - a good forthern of the coffe of anotherelie atten full immateur ther 4 m. talf, flagreensh. com and so bottom of chippy 14. Mys 25 - Steeling - thrub our tall, - from on on al File leaves somewhat chlorotic 05. Vine -- -- L. endaturment is enter and the second of the flower white. tangled vire plane. Ob of well a green into yellow stome green in well from the cotton flowers wheneyed in reclusion for the transfer magni

anne andold a. 1949 you glosel - Drestinet 195 Etelfield Co. the strongs preading THEFT I FOR THE STREET from a rower by decuated grandly met 1 - down ted steps, frite news men from from to is of floring Cavenderfreight withdelp marries generally - standard. may retired to a state of Established to dull green, 2 mill tree. of Paker energineen Bit someth stiff appearance attempt and property percentact May a Torring ton Litchfield mans collection of portion 10 Hodgetinear accorded of each of various clumps. adjust afor is rosed with taken at random, but titly and exponently, non with attempt to get all on rations seen - color levelling varied from definite E-lue-lavender to white. sign of plant, shape of leaver. dignet of condensation of Care, sigl of flowers way substantially . - sex disregarded, color not recorded. May 18 M.S. comme nonfritelap just E. of A. and of Bonedict Pour titelfield. old frield ofen somewhat to Rome low arding or procumbent, petal yellow, emarginate. 11 Petertilla simplica

Fitchfield to. 1949 Connecticut - France variable population 196 notice Hedgetin commence (1.) mangingar in #30910. sampled same way. May at - Hen firet, fuffell. Charles de None collection - taken 1) Head yout a manufacture () . I candom proportation THE PRINCE OF THE PARTY OF THE showed little variation indicate of the state of the st colon, all-being lawerde, KI TIV when the same of t Thomas who he. gender of the to in with I from with not the or Men 12 - Herrichard Kindge, Wy mis. 2-1 Tour Milford. I side of and the wood dalle, litelifield di mixed Trolly, Petula governo wordson wedger, grang medias with me in police of the les in prostrate, petalingellow varying from entiry & 10 lote milillo canadenses L+ slightly dinarginale. wooded . I do and in more old 17 de rig in elle 30916, mil gellow slightly to markedly Center mediates seen. 16 Rentilla simples michs. old read in motods growing - its # 30915, no intermediates dec.

Litchfield Co. 1949 Connecticut - Maryland 1.98man collection, population Hedystis caerulea (L.) variable in color from common in neadow on pale lavender to almost gentle sloper out much evouded by dense grass. white event, flowers white. 18 Comandra unbellata occasional a common totally in mendow. and to proumbent; 19 Potentilla simples michon. pretal yellow, entire abundant in neadow to prominently enaginals. ereil, persons bright - yellow. common in mondon stems event to reclining, y stellaria varying from patch & pald; flowers, white, varying as much as 200 % in styp, in width, anther · patches (obviously closes) arange-red. June is - head of Broad Creeks, afflicent of Louth River slightly brackish estuary with worded bluffer of weensolidated sediments rooted in bottom, flowers 76. Elodea canddensis floatingen surface, peranth above surface. abundant in water 2-5 ft. deeps mud bottom. large clumb, 1 m. across, flowers pruple - sepalo white times with purple common along muddy shore setals laventh Brindwith purple. bolaments purple with white margine

Jantar G. 1949 maryland, Vinginia norted on botton, spikes lotamogeton perfoliation held above the surgace water i Is ft. deep, serly muly sollien. large Tuft, panieles 29 Brachyleytrum erectum with spikelet, somewhat droops spanely worked bluff old leaves curly 30 Danthonia spicata occasional on spaniely sorraled bluff tufts 31 Deschampsin flexuson facily common on proved scuff in shade 5 m culms & leaves straight 3/a Parieum occasional generally 15 m erest, panide strict. 34 Festura myurs: spike like, reddish. common on sterile of me flat above blufiff exect garcending, lover 33 Festures octofins. pancle tranches tending common on sterile of the to be deplexed, pale green, in tendency to be reddish. flat above bluffer 30932 +30933 grow together, do not intergrade ald no distinguished will out effectly. Juney - just west of fee Doulevard Heighting erect, branched from nort eroun, nays bright golden gellow. one. of talls Church, fairfax 4. Ver 34 Energy sis. roadride, edged thicket June 7 - Fort Buffalo, Sleepy Holes deep noted, event, leaves weedy wasterde ascending, flowers cream white. 35 aprocynum cannatiaum 6.

Faufax Co. - arlington Co. Vinginia 1999 variegated with stull gray- que 30936 Amilas glaves above flowers dull yellow. 2 37 Panieum 33 Pannenn, za fanicum June 11 - mainland across from north end of Columbia Island Potomar River, a Sington Co. Riverbank thicket of a mall trees and weedy undergrowth; stails denuded feet and hood fill. small-lier & roan. thul, 5 m. tall, abundantly fruiting, fruit clash when ribe; back with yellowed, 40 morus alba thicket cast. (one tree practing, most sterile) small tree in con. thirty, 5 mitall. 41 Frazines americana branched from base; fruit immotive nava in this list in undergrowth inthicket 43 orcasional in thicket 44 thengula is occasional on stail of lat. enfreially on file of forsereshy exect, flowers yellow. race on startly frill casional on flat and at odger

